

Confectionery Product,  
a Mold for Manufacturing a Confectionery Product and  
a Method of Manufacturing a Confectionery Product

Technical Field

The invention relates to a confectionery product, as well as a mold for and a method of manufacturing a confectionery product.

In the field of confectionery products, e.g. made from chocolate, the outer appearance of the product is, apart from the taste of the product, becoming more and more important. In particular, the outer appearance of confectionery products can be used for marketing and promotional purposes so that the outer surfaces of confectionery products are more and more designed to fulfill specific needs in this respect.

Background Art

There are confectionery products available on the market today that comprise surface portions containing a relief or indentations, which allow an image or other graphic information such as brand names, etc. to be visible on the surface of the product. Furthermore, attempts have

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been made to manufacture confectionery products, in particular bars or tablets of chocolate consisting of more than one color. For example, portions of the surface or of the confectionery product as a whole could be made of white instead of brown chocolate, so that an image or one or more words can be shown on the surface of the confectionery product. Furthermore, various other methods for printing images on chocolate are known in the art.

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Summary of the Invention

The object underlying the invention is to provide a confectionery product, a mold for as well as method of manufacturing a confectionery product, by means of which images or other graphic information, such as words, in particular brand names, can be depicted on the surface of a confectionery product in a more sophisticated manner attracting the customer.

This object is with regard to the confectionery product as such solved by means of the subject matter of claim 1.

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In principle, the invention provides a confectionery product having an image or picture on its surface that is visible when viewed from a particular angle, but which is not visible when viewed from a different angle. Said image or picture can consist of any type of graphical information such as images, symbols or words. As will be detailed below, the confectionery product according to

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the invention can easily be provided with a second image or the like, which is visible when the product is viewed from the second angle. Thus, two different pictures are visible from one surface area. By means of these two different pictures, interchanging and, thus, moving images can also be displayed.

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This inventive principle is realized by means of the fact that the confectionery product according to the invention comprises, on at least one of its surfaces, a first set of surface portions and a second set of surface portions. On the entirety of the surface portions of the first set, a graphic information is formed, which will in the following be referred to as the first graphic information. Furthermore, the surface portions of the first set are arranged alternating with the surface portions of the second set. Finally, the respective surface portions of the first set are arranged at an angle with respect to the adjacent surface portions of the second set. In other words, a - as seen in a cross-section - zigzag structure is essentially formed on at least a portion of at least one of the surfaces of the inventive confectionery product. This structure can, as described in three-dimensional terms, be called a multi- or poly-prismatic structure. The first set of surface portions is formed by those flanks of the zigzag structure, which are facing a first direction. The flanks in between form the second set of surface portions, which are essentially facing or directed to a second direction.

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Since the first graphic information is formed on the entirety of the surface portions of the first set, this graphic information is visible from the first direction. Furthermore, when the product is viewed at an angle, which does not deviate excessively from this first direction, the graphic information will be visible. In contrast, when the product is viewed essentially from a second direction, the entirety of the surface portions of the second set is visible, whereas the entirety of the surface portions of the first set is not visible.

Consequently, the graphic information which is formed on the surface portions of the first set is not visible. The graphic information on the first and second set of surface portions can be combined with each other so as to display interchanging or even moving images or pictures.

This structure renders the surface of the inventive confectionery product interesting and sophisticated with regard to its outer appearance. The customer will experience that the graphic information is visible from one direction and not visible from other directions. Therefore, the customer's attention tends to be drawn to this nice effect, as the customer will most likely manipulate the product or move the product about so that the graphic information is visible at times and not visible at other times. Thus, the customer will more likely take notice of the graphic information that is depicted on the product. Therefore, the confectionery product according to the invention is particularly useful for promotional products with a visible surface, on which

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graphic information relating to the brand or manufacturer or any company using the confectionery product for promotional purposes is displayed.

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Preferred embodiments of the inventive confectionery product are described in the further claims.

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As indicated above, the effect of the invention is enhanced when a second graphic information is formed on the entirety of surface portions of the second set. In this manner, the first graphic information is visible from one direction and the second graphic information is visible from a second direction. Thus, the customer's attention can not only be effectively drawn to the graphic information as such, but also two different or complementary graphics can be displayed on the product. In summary, the surface of the confectionery product is effectively used for displaying graphic information, because two different graphics can be shown on a particular surface area.

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With regard to the manner in which the graphic information is formed on the respective surface portions, it is preferred that the first and/or second graphic information is formed by a relief. As indicated in the introduction, it is generally possible that the graphic information on the confectionery product according to the invention is formed by providing portions of the surface portions mentioned above with a differing color. However, the most effective way of causing graphic

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information to appear on the surface of the confectionery product is to form a relief or indentations on the surface portions which will then be visible to the customer.

5           Although the surface portions of the first set as well as the surface portions of the second set do not necessarily have to be parallel to each other, it is preferred that all the surface portions of the first set and/or all of the surface portions of the second set are arranged parallel to each other. In this embodiment, the whole area of the surface portions of the respective set can be used to display a portion of the graphic information which is shown on the entirety of surface portions of the respective set.

10           A mold for manufacturing a confectionery product, which is formed according to the invention, is described in claim 5. In order to manufacture a confectionery product as described above, the inventive mold comprises, on at least one of its inner surfaces, a first set of surface portions and a second set of surface portions. The surface portions of the first set and the surface portions of the second set are arranged alternating with each other and at an angle with respect to each other. In order to form a graphic information on the entirety of surface portions of the first set, the entirety of surface portions of the first set of the inventive mold comprises graphic information formed by means of a relief or indentations. When the confectionery product is

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manufactured by filling, for example chocolate into the mold, the required graphic information is formed on the entirety of surface portions of the first set by means of the fact that the relief or indentations on the surface portions of the inner surface of the mold lead to corresponding indentations or a relief on the confectionery product, which will then be visible from one direction and not visible from others. Preferred embodiments of the inventive mold essentially correspond to the complementary features of the confectionery product as outlined above.

The inventive method of manufacturing a confectionery product is described in claim 8. In accordance with the principle underlying the invention, a graphic information is formed on the entirety of surface portions of a first set formed alternating with the surface portions of a second set on at least one of the surfaces of the confectionery product. Also with regard to the inventive method, preferred embodiments thereof comprise features which correspond to the features of preferred embodiment of the confectionery product as such.

#### Brief Description of the Drawings

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Further features and advantages of the subject matter of the invention will become apparent from the following detailed description of a preferred embodiment thereof, which is to be taken in connection with the drawings, in which:

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Fig. 1 shows a top view of the confectionery product according to the invention; and

Fig. 2 shows a cross-sectional view of the confectionery product.

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Detailed Description of a Preferred Embodiment of the Invention

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As can be taken from Fig. 1, as a preferred embodiment of the confectionery product according to the invention, a chocolate tablet 10 comprises several portions 12 which are defined by strip-like portions 14 of reduced thickness (see Fig. 2) delimiting the portions 12. By means of the strips 14, a row of portions 12 or single portions 12 can be broken off from the complete tablet 10 in order to consume only a well-defined portion of the complete tablet. Furthermore, in the depicted embodiment, graphic information, which is indicated by 16, is formed on each of the portions 12 by means of indentations defining the depicted word. Due to the light being reflected from the recesses or indentations in a different manner than from the "regular" surface of the portions 12, the graphic information 16 is visible to the customer.

The same effect is used for a central portion 18 of the depicted tablet 10, in which strip-like surface portions 20 of a first set are formed alternating with strip-like surface portions 22 of a second set. On the entirety of

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the surface portions 20 of the first set, a first graphic information is formed by means of forming appropriate indentations. Furthermore, a second graphic information is formed on the entirety of surface portions 22 of the second set. E.g., a first graphic information could correspond to the graphic information shown on the surrounding portions 12, whereas a second graphic information could consist of an image or any other desired graphic information. As can be seen from Fig. 1, the surface portions 20 of the first set and the surface portions 22 of the second set are arranged alternating with each other.

As can be seen from Fig. 2, adjacent surface portions 20 of the first set and surface portions 22 of the second set are arranged at an angle with regard to each other. According to a preferred embodiment, these surface portions form an angle of approximately 90°. Accordingly, a structure, which appears as a zigzag structure in the cross-section of Fig. 2, is formed in the surface area 18 (see Fig. 1). Furthermore, with regard to a three-dimensional appearance, adjacent surface portions of the first and the second set respectively form ridges extending over the surface area 18. The surface portions 20 of the first set are formed by each left side flank of these ridges according to Fig. 2, and the surface portions 22 of the second set are formed by each right side flank.

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Accordingly, the entirety of surface portions 20 of the first set can be seen as if they were arranged immediately next to each other when the product 10 is viewed from a first direction A. This first direction A will essentially be parallel to each of the surface portions 22 of the second set. When the product is viewed from this first direction A, the surface portions 22 of the second set will essentially not be visible at all, as the direction A extends parallel to these surface portions. Accordingly, the first graphic information, which is formed on the entirety of the surface portions 20 of the first set, can be viewed from the direction A, since the surface portions 20 appear adjacent to each other and thus show the first graphic information.

In contrast, when the direction in which the product is viewed excessively deviates from this direction A, the first graphic information cannot be recognized. In particular, as can be seen from Fig. 1, neither the first nor the second graphic information will be visible when the product 10 is viewed in a direction perpendicular to its surface. However, when the product is viewed from a second direction B, which is essentially parallel to the surface portions 20 of the first set, the entirety of surface portions 22 of the second set will appear immediately adjacent each other. Therefore, the second graphic information which is according to the preferred embodiment formed on the surface portions 22 of the second set, can be viewed from the direction B.